INTERNATIONAL SEARCH REPORT

International application No.

A		PCT	/JP2004/013152
Int.Cl	CATION OF SUBJECT MATTER 7 F24F1/00		
According to In	ternational Patent Classification (IPC) or to both nation	onal classification and IPC	
B. FIELDS S			
Minimum docu	mentation searched (classification system followed by 7 F24F1/00	classification symbols)	
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Documentation Jitsuvo	searched other than minimum documentation to the ex Shinan Koho 1922–1996	tent that such documents are included	in the fields searched
		Jitsuyo Shinan Toroku Koh Toroku Jitsuyo Shinan Koh	o 1996–2004 o 1994–2004
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	pase consulted during the international search (name o	f data base and, where practicable, sea	rch terms used)
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C. DOCUMEN	NTS CONSIDERED TO BE RELEVANT		
Category*		·	
X	Citation of document, with indication, where a		Relevant to claim No.
Ŷ	Document 1: JP 2003-014249 A 15 January, 2003 (15.01.03),	(LG Electronics Inc.	
	Full text; all drawings		11-14
	& WO 2002/103248 A2 & EI	P 127065 A2	
•	& US 2002/189274 A1 & US & CN 1405504 A	6725684 B2	
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Y	Document 2: JP 09-210402 A	(Hitachi, Ltd.),	. 11
	12 August, 1997 (12.08.97), Par. No. [0041]		1
	(Family: none)		
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	cuments are listed in the continuation of Box C.	See patent family annex.	
	ories of cited documents: fining the general state of the art which is not considered	"T" later document published after the	international filing date or priority
to be of parti	cular relevance	date and not in conflict with the a the principle or theory underlying	nnication but cited to undouster d
tuing date	ation or patent but published on or after the international	"X" document of particular relevance;	the claimed invention cannot be onsidered to involve an inventive
" document wh cited to estal	nich may throw doubts on priority claim(s) or which is olish the publication date of another citation or other	such when the nochillent is taken a	ione
special reason (as specified)		"Y" document of particular relevance; considered to involve an invent	IVE CIED When the decument :-
P' document published prior to the international filing date but later than		combined with one or more other s being obvious to a person skilled i	Circh documents much combination
the priority da	ate claimed	"&" document member of the same pat	ent family
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30 Sept	ember, 2004 (30.09.04)	19 October, 2004	(19.10.04)
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m FC1/ISA/210	(second sheet) (January 2004)		

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	Document 3: Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 004132/1990 (Laid-open No. 097113/1991) (Sharp Corp.), 04 October, 1991 (04.10.91), page 7, lines 9 to 14 (Family: none)	11
Y	Document 4: JP 10-217876 A (Yazaki Corp.), 18 August, 1998 (18.08.98), Par. No. [0024] (Family: none)	12-14
Y	Document 5: JP 10-109872 A (Hitachi Building Systems Co., Ltd.), 28 April, 1998 (28.04.98), Par. Nos. [0015] to [0016] (Family: none)	12-14
Y	Document 6: JP 11-345650 A (Yazaki Corp.), 14 December, 1999 (14.12.99), Par. No. [0015] (Family: none)	12-14